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(57) Abstract

The invention relates to macromolecular photocrosslinkers having polymeric backbones of substituted ethylene or substituted siloxane groups carrying photoactive groups. The photocrosslinkers are capable of producing, when being exposed to light of determined wavelengths above 305 nm, radicals which are retained on the macromoleculecular photocrosslinkers and reacting so as to accomplish a crosslinked network structure. The invention further relates to the use of the photocrosslinkers in different systems and their utility in production of medical devices including ophthalmic lenses.